FIBERSYSTEM

Datasheet

RS-232 Fiber Optical Tranceiver

Features RS-232 Fiber Optical Tranceiver

- Fiber optic transmission, immune to EMI and RFI
- Power supply 110 or 230 volts
- With or without control signals
- Fiber connectors for SC
- Mountable on connector or on cable

The RS-232 Fiber Optical Tranceiver comes in a variety of versions

The range of Fibersystem's RS-232 Fiber Optical Tranceiver makes it possible to use RS-232 as communication interface in environments and applications where electrical connections can't give safe and proper functionality or immunity against electrical or magnetical fields.

Fiber optic cables give advantages over common electrical cabling

• Immune to all kinds of electromagnetic interference and disturbance.
• The communication can't interfere with other signals.
• Enables the use of higher data rates over longer distances.

Installation advantages

• Electrical isolation between the two communication devices.
• No concern have to be taken to high voltage or high current cables when installed.

Application benefits

• The transmission is totally independent of transmission speed
• All type of data will be transparently be forwarded
• The communication can be two-way simultaneously and independent of each other.

*The Fibersystem **RS-232 Fiber Optical Tranceiver** is encapsulated in corrosion protected steel which gives them a very good **protection against electrical and magnetical fields**. The dimensions are small and with a unique design with either nut or screw fastening of the electrical connector.*

The RS-232 Fiber Optical Tranceiver can easily be mounted either on a connector or directly on a cable. This gives the possibility to easily mount an adapter directly on the converter for change of male/female or number of pins 9/25 pin D-sub.

***Fibersystem AB** is an inventive Swedish company who since 1982 has been working with the application of fiber optic technology in the delivery of solutions fulfilling the customers' multitude of needs.*

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Technical data

Electric connection

Female	25 pin D-sub connector with either nut or screw fastening

Fiber Optic

System budget	29 dB at 9/125 µm single mode fiber SM 1310 nm
Laser	FP-laser, class 1
Wavelength	1310 nm
Connector	SC
Fiber	SM, 9/125 µm single mode
Max range	40 km at fiber attenuation ≤0,4 dB/km and 4 mechanical splices with ≤0,4 dB each.
Min range	1 m. For shorter distances than 100 m, an attenuation splice may be used.
Bit rate	125 Mbps

RS-232

Data speed	Up to 115 kBaud per signal/channel. Each channel is sampled at 25 MSample/s
Connector	25 pin D-sub female

Mechanical / Environment

Dimensions	Height 22 mm, width 57 mm, length 85 mm
Weight	150 g
Environment	-40 to +70 °C, 10 to 90 %RH non condensing

Power supply

Voltage	7-24 VDC
Current max	4 channel type - 250 mA

Accessory

Power supply. AC/DC Adapter
Input: 100-240 VAC
Output 7,5 VDC/0,8 A

Ordering information

Product number	Model	Channels	Description
60-00-7753	21-215	4	Fiber Optical Tranceiver SC SM 40 km, w.fe. D-sub, RS-232/4, 125 Mbps

92-001	Power supply for 21-215, 230 VAC to 7.5 VDC

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